



SUPERFUND RECORDS

Herculaneum, Missouri Community Advisory Group Meeting

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Gene Gunn, EPA
Bruce Morrison, EPA
EPA Toll Free Phone #
1-800-223-0425

Site Progress

- 114 yards replaced
- 70 home interiors cleaned
- 59 vacuums provided by EPA

Air Monitoring Data

- ▶ First Quarter 2002 all monitors met the ambient standard of 1.5 micrograms of lead per cubic meter of air (ug/m3)
- ▶ Broad Street Monitor Second Quarter 2002 -
- ▶ Doe Run's Data - Average - 1.86 ug/m3
- ▶ April - 3.12 ug/m3
- ▶ May - 2.04 ug/m3
- ▶ June - 0.92 ug/m3
- ▶ MDNR's Data
- ▶ April - 3.58 ug/m3
- ▶ May - 2.34 ug/m3
- ▶ June - Not Yet Available
- All other monitors were below the standard

Ongoing Yard Soil Sampling

- Sampling will extend out to 1.5 mile radius from smelter
- 21% or 32 of 152 yards sampled have shown lead concentrations exceeding 400 ppm
- Only 3 samples have exceeded 1000 ppm lead

Material Handling and Transportation plan

- EPA approved Plan on June 24, 2002
- \$12,750 in penalties assessed to Doe Run
- Plan includes the construction of an enclosed truck wash, daily street cleaning, and additional enclosures within the facility.
- EPA and MDNR will conduct compliance monitoring

Current Actions at Site

- Surface soil replacement
- Improve smelter operations/reduce emissions
- Cleaning homes to HUD standards
- Blood Lead Screening
- Limited voluntary buyouts
- Community Awareness
- Monitoring for recontamination

Recontamination Sampling Results for home interiors

- First sampling event showed 9 out of 12 homes failed to meet the HUD clearance standards
- Second sampling event showed 6 out of 11 failed HUD clearance standards
- Interiors remaining clean are located outside of 0.5 mile radius from smelter

Data Results for Lead in Carpets

- Carpets contain lead concentrations ranging from 370 to 4,350 ppm
- Carpets contain lead loading levels ranging from .22 mg per square foot to 4350 mg per square foot for vacuum dust samples; and 5.78 micrograms per square foot to 79.2 micrograms per square foot using a wipe sampling protocol

Potential Future Actions

- Interim measures: home environmental assessment by Health Department, interior re-cleaning, limited carpet replacement, limited duct cleaning
- Final actions: to be determined following collection of site-specific data

Site-Specific Data Needs

- Lead bioavailability
- Soil and interior dust speciation
- Interior dust clearance standards

Site Goals Unchanged

- Residential soil and interior cleanups must continue
- Recontamination of residential soils is not acceptable
- Doe Run must continue to meet current goals
 - Clean streets
 - Ambient air standard
 - New materials handling and transportation methods

